

In The Claims:

Please amend claims 2, 9, 18, and 19 as follows:

---

2. (Amended) An isolated antibody that selectively binds to [a polypeptide of claim 1, (a) – (m)] a polypeptide having an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence shown in SEQ ID NO:1;

(b) the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. PTA-2369;

(c) the amino acid sequence of an allelic variant of the amino acid sequence shown in SEQ ID NO:1;

C<sup>3</sup> (d) the amino acid sequence of an allelic variant of the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. PTA-2369;

(e) the amino acid sequence of a sequence variant of the amino acid sequence shown in SEQ ID NO:1, wherein the sequence variant is encoded by a nucleic acid molecule hybridizing to the nucleic acid molecule shown in SEQ ID NO 2 under stringent conditions;

(f) the amino acid sequence of a sequence variant of the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. PTA-2369, wherein the sequence variant is encoded by a nucleic acid molecule hybridizing under stringent conditions to the cDNA contained in ATCC Deposit No. PTA-2369;

(g) a fragment of the amino acid sequence shown in SEQ ID NO:1, wherein the fragment comprises at least 12 contiguous amino acids;

(h) a fragment of the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. PTA-2369, wherein the fragment comprises at least 12 contiguous amino acids;

(i) the amino acid sequence of the mature receptor polypeptide from about amino acid 6 to about amino acid 359, shown in SEQ ID NO:1;

(j) the amino acid sequence of the mature polypeptide from about amino acid 6 to about amino acid 359, encoded by the cDNA clone contained in ATCC Deposit No. PTA-2369;

(k) the amino acid sequence of the transmembrane domain of the polypeptide shown in SEQ ID NO:1, from about amino acid 43 to about amino acid 318;

13 (l) the amino acid sequence of the transmembrane domain from about amino acid 43 to about amino acid 318 in the polypeptide encoded by the cDNA contained in ATCC Deposit No. PTA-2369;

(m) the amino acid sequence of an epitope bearing region of any one of the polypeptides of (a)-(l).

---

9. (Amended) A method for detecting the presence of [any of the polypeptides in claim 1 in a sample,] a polypeptide having an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence shown in SEQ ID NO:1;

14 (b) the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. PTA-2369;

(c) the amino acid sequence of an allelic variant of the amino acid sequence shown in SEQ ID NO:1;

(d) the amino acid sequence of an allelic variant of the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. PTA-2369;

(e) the amino acid sequence of a sequence variant of the amino acid sequence shown in SEQ ID NO:1, wherein the sequence variant is encoded by a nucleic acid molecule hybridizing to the nucleic acid molecule shown in SEQ ID NO 2 under stringent conditions;

(f) the amino acid sequence of a sequence variant of the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. PTA-2369, wherein the sequence variant is encoded by a nucleic acid molecule hybridizing under stringent conditions to the cDNA contained in ATCC Deposit No. PTA-2369;

(g) a fragment of the amino acid sequence shown in SEQ ID NO:1, wherein the

fragment comprises at least 12 contiguous amino acids;

(h) a fragment of the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. PTA-2369, wherein the fragment comprises at least 12 contiguous amino acids;

(i) the amino acid sequence of the mature receptor polypeptide from about amino acid 6 to about amino acid 359, shown in SEQ ID NO:1;

(j) the amino acid sequence of the mature polypeptide from about amino acid 6 to about amino acid 359, encoded by the cDNA clone contained in ATCC Deposit No. PTA-2369;

(k) the amino acid sequence of the transmembrane domain of the polypeptide shown in SEQ ID NO:1, from about amino acid 43 to about amino acid 318;

(l) the amino acid sequence of the transmembrane domain from about amino acid 43 to about amino acid 318 in the polypeptide encoded by the cDNA contained in ATCC Deposit No. PTA-2369;

(m) the amino acid sequence of an epitope bearing region of any one of the polypeptides of (a)-(l);

said method comprising contacting said sample with an agent that specifically allows detection of the presence of the polypeptide in the sample and then detecting the presence of the polypeptide.

---

18. (Amended) A method for identifying an agent that binds to [any of the polypeptides in claim 1,] a polypeptide having an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence shown in SEQ ID NO:1;

(b) the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. PTA-2369;

(c) the amino acid sequence of an allelic variant of the amino acid sequence shown in SEQ ID NO:1;

(d) the amino acid sequence of an allelic variant of the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. PTA-2369;

(e) the amino acid sequence of a sequence variant of the amino acid sequence shown

in SEQ ID NO:1, wherein the sequence variant is encoded by a nucleic acid molecule hybridizing to the nucleic acid molecule shown in SEQ ID NO 2 under stringent conditions;

(f) the amino acid sequence of a sequence variant of the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. PTA-2369, wherein the sequence variant is encoded by a nucleic acid molecule hybridizing under stringent conditions to the cDNA contained in ATCC Deposit No. PTA-2369;

(g) a fragment of the amino acid sequence shown in SEQ ID NO:1, wherein the fragment comprises at least 12 contiguous amino acids;

(h) a fragment of the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. PTA-2369, wherein the fragment comprises at least 12 contiguous amino acids;

(i) the amino acid sequence of the mature receptor polypeptide from about amino acid 6 to about amino acid 359, shown in SEQ ID NO:1;

(j) the amino acid sequence of the mature polypeptide from about amino acid 6 to about amino acid 359, encoded by the cDNA clone contained in ATCC Deposit No. PTA-2369;

(k) the amino acid sequence of the transmembrane domain of the polypeptide shown in SEQ ID NO:1, from about amino acid 43 to about amino acid 318;

(l) the amino acid sequence of the transmembrane domain from about amino acid 43 to about amino acid 318 in the polypeptide encoded by the cDNA contained in ATCC Deposit No. PTA-2369;

(m) the amino acid sequence of an epitope bearing region of any one of the polypeptides of (a)-(l);

said method comprising contacting the polypeptide with an agent that binds to the polypeptide and assaying the complex formed with the agent bound to the polypeptide.

19. (Amended) A method for modulating the activity of [any of the polypeptides in claim 1] a polypeptide having an amino acid sequence selected from the group consisting of:

(a) the amino acid sequence shown in SEQ ID NO:1;

(b) the amino acid sequence encoded by the cDNA contained in ATCC Deposit No.

PTA-2369;

(c) the amino acid sequence of an allelic variant of the amino acid sequence shown in SEQ ID NO:1;

(d) the amino acid sequence of an allelic variant of the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. PTA-2369;

(e) the amino acid sequence of a sequence variant of the amino acid sequence shown in SEQ ID NO:1, wherein the sequence variant is encoded by a nucleic acid molecule hybridizing to the nucleic acid molecule shown in SEQ ID NO 2 under stringent conditions;

(f) the amino acid sequence of a sequence variant of the amino acid sequence encoded by the cDNA clone contained in ATCC Deposit No. PTA-2369, wherein the sequence variant is encoded by a nucleic acid molecule hybridizing under stringent conditions to the cDNA contained in ATCC Deposit No. PTA-2369;

(g) a fragment of the amino acid sequence shown in SEQ ID NO:1, wherein the fragment comprises at least 12 contiguous amino acids;

(h) a fragment of the amino acid sequence encoded by the cDNA contained in ATCC Deposit No. PTA-2369, wherein the fragment comprises at least 12 contiguous amino acids;

(i) the amino acid sequence of the mature receptor polypeptide from about amino acid 6 to about amino acid 359, shown in SEQ ID NO:1;

(j) the amino acid sequence of the mature polypeptide from about amino acid 6 to about amino acid 359, encoded by the cDNA clone contained in ATCC Deposit No. PTA-2369;

(k) the amino acid sequence of the transmembrane domain of the polypeptide shown in SEQ ID NO:1, from about amino acid 43 to about amino acid 318;

(l) the amino acid sequence of the transmembrane domain from about amino acid 43 to about amino acid 318 in the polypeptide encoded by the cDNA contained in ATCC Deposit No. PTA-2369;

(m) the amino acid sequence of an epitope bearing region of any one of the polypeptides of (a)-(l);

said method comprising contacting the polypeptide with an agent under conditions that